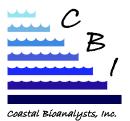
Client: Warren Environmental, Inc.

Project ID: WARR1501 Sample I.D.: Cured Epoxy #1



Report of Analysis: Acute Elutriate Test (10:1 volume:mass Saltwater:product)

Submitted To:	Prepared By:
Ms. Jane Warren	Coastal Bioanalysts, Inc.
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A & W Maintenance Inc.	Gloucester, VA 23061
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	Contact: Peter F. De Lisle, Technical Director

Acute Test Results*				
Species-Test Method	48-h LC50	95% C.L.	T.U.Ac	NOAEC
M. bahia EPA 2007.0	>100%	N/A	1.00	100%

*Note: Although the name of *Mysidopsis bahia* has officially been changed to *Americamysis bahia*, the former name is referenced because of its use in the EPA method manuals and most NPDES permits. Details regarding test conduct and data analysis provided in attached bench sheets and printouts as applicable.

Acute Test QA/QC	Reference Tox	rganism Source: CBI	Stock Cultures		
Species-Method	Data	% Control		95% C.L./A.L.	RTT in
(Ref. Test Date)	Source	Survival	48-h LC50	for LC50	Control?
M. bahia 2007.0	RTT	100	514	459-575	Yes
(6/19/15-6/21/15)	CC	100	509	407-611	

Note: RTT = Reference Toxicant Test, CC = Control Chart.

The results of analysis contained within this report relate only to the sample as received in the laboratory. This report shall not be reproduced except in full without written approval from the laboratory. Unless noted below, these test results meet all requirements of NELAP.

APPROVED:

Peter F. De Lisle, Ph.D.

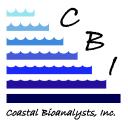
Technical Director

6/23/15 Date

Deviations from, additions to, or exclusions from the test method, non-standard conditions or data qualifiers and, as appropriate, a statement of compliance/non-compliance: **NONE**

Client: Warren Environmental, Inc.

Project ID: WARR1501 Sample I.D.: Cured Epoxy #1



GLOSSARY OF TERMS AND ABBREVIATIONS

A.L. (Acceptance Limits): The results of a given reference toxicant test are compared to the control chart mean value ± 2 standard deviations. These limits approximate the 95% probability limits for the "true" reference toxicant value.

Chronic Value (ChrV): The geometric mean of the NOEC and LOEC. Units are same as test concentration units.

C.L. (Confidence Limits): These are the probability limits, based on the data set and statistical model employed, that the "true value" lies within the limits specified. Typically limits are based on 95% or 99% probabilities.

Control chart: A cumulative summary chart of results from QC tests with reference toxicants. The results of a given reference toxicant test are compared to the control chart mean value and 95% Acceptance Limits (A.L.) (mean \pm 2 standard deviations).

IC25: The concentration of sample or chemical, calculated from the data set using statistical models, causing a 25% reduction in test organism growth, reproduction, etc. The lower the IC25, the more toxic the chemical or sample. Units are same as test concentration units.

LC50: The concentration of sample or chemical, calculated from the data set using statistical models, causing a 50% reduction in test organism survival. The lower the LC50, the more toxic the chemical or sample. Units are same as test concentration units. Note: The LC50 value must always be associated with the duration of exposure. Thus 48-h LC50, 96-h LC50, etc. are calculated.

LOEC: Lowest-observable-effect-concentration. The lowest concentration of sample or chemical in a chronic test dilution series in which the test organisms exhibit a statistically significant reduction in any of the test end points (e.g. growth, survival, reproduction) compared to control organisms. Units are same as test concentration units.

PMSD: Percent Minimum Significant Difference: The minimum difference which can exist between a test treatment and the controls in a particular test and be statistically significant; a measure of test sensitivity. The lower the PMSD the more sensitive the test.

N/A: Not applicable.

N/D: Not determined or measured.

NOAEC: No-observable-acute-effect-concentration. The highest concentration of sample or chemical in an acute test dilution series in which the test organisms exhibit no statistically significant reduction in the test end point (e.g. survival) compared to control organisms. Units are same as test concentration units.

NOEC: No-observable-effect-concentration. The highest concentration of sample or chemical in a chronic test dilution series in which the test organisms exhibit no statistically significant reduction in any of the test end points (e.g. growth, survival, reproduction) compared to control organisms. Some regulatory definitions also require that the NOEC be less than the LOEC. Units are same as test concentration units.

Q.L.: Quantitation Limit. Level, concentration, or quantity of a target variable (analyte) that can be reported at a specified degree of confidence.

T.U.: Toxic units. Expresses the relative toxicity of an effluent or elutriate in such a manner that the larger the toxic unit value the more toxic the effluent. T.U. $_{Ac} = 100/LC50$. T.U. $_{Chr} = 100/NOEC$. A dimensionless unit.

M. bahia daily biological measurements (EPA 2007.0) Template version AMB-STAT-48h-NOAEC5-061313

TRTMNT. (% Elutriate)	Rep	#Live Day 0	#Live Day 1	#Live Day 2	Final Mean % Live			
	A	10	10	10	100.0			
С	В	10	10	10				
Lab Control	С	10	10	10				
	D	10	10	10				
	Α	10	10	10	100.0			
#1	В	10	10	10				
6.25	С	10	10	10				
	D	10	10	10				
	Α	10	10	10	100.0			
# 2	В	10	10	10				
12.5	С	10	10	10				
	D	10	10	10				
	Α	10	10	10	100.0			
# 3	В	10	10	10				
25.0	С	10	10	10				
	D	10	10	10				
	Α	10	10	10	100.0			
# 4	В	10	10	10				
50.0	С	10	10	10				
	D	10	10	10				
	Α	10	10	10	100.0			
# 5	В	10	10	10				
100	С	10	10	10		Test Duration:	47h 49m	
	D	10	10	10			TAC 48+/-0.5h	
INI	TIALS:	GB	GB	PB	% CONTR	ROL SURVIVAL:	100.0	
DATE &	TIME:	6/16/15 16:15	6/17/15 8:58	6/18/15 16:04			TAC = 90%	
CHANGES & NOTES (INITIALS DATE, SPECIFIC CHANGE MAI		Elutriate prepar	ed using 200g/2l	ASW mixed on	orbital shaker 1.5	hrs at 100 rpm		
		SPECIES:		N				
		ACCLIMATION WATER:			ASW			
		FEEDING PRIC	R TO TEST:					
		FEEDING DUR	ING TEST:	Art	100/mysid/day)			
		SOURCE:			CE	I Stock cultures		
		ACCLIMATION TEMP (o C):						
		HARVEST STA	RT DATE & TIM	E:	6/10/15 14:55			
		HARVEST END	DATE & TIME:		6/11/15 10:50			
		DATE/TIME WA	TER ADDED:		6/16/15 16:00			
		DATE/TIME AN	IMALS ADDED:		6/16/15 16:15			
		ANIMAL AGE V	VINDOW:		19h 55m TAC Max.			
		MAX AGE AT T	EST START:			5d	TAC Max. 5 d	
	TEST SET UP I	3Y:			GB			
	ELUTRIATE PR	REP DATE AND	ГІМЕ	6/16/15 14:30	SAMPLE USED	А		
TEST ID:		ELUTRIATE AG	GE AT TEST STA	RT:	1h 46m	TAC Ma	ax 36 h	
WARR1501AMB	PEER REVIEW	BY (INITIALS/D	ATE):		PB. GB	6/18/15 16:11		

M. bahia daily water quality bench sheet (EPA METHOD 2007.0) Template version AMB-STAT-NOAEC5-061313

		Day	Day 0 Day 1 Day 2		y 2	SUMMARY WATER QUALITY DATA					
TRTMNT		Initi	Initial				Final		S.D.	MIN.	MAX.
	С	8.1	0	7.8	87	7.9	91	7.96	0.12	7.87	8.10
	1	8.1	0	7.9	97	7.9	91	7.99	0.10	7.91	8.10
~!! (C !!)	2	8.1	2	8.0	00	7.9	95	8.02	0.09	7.95	8.12
pH (S.U.)	3	8.1	2	8.0	8.00		97	8.03	0.08	7.97	8.12
	4	8.1	2	8.0	00	7.9	97	8.03	0.08	7.97	8.12
	5	8.1	4	7.98		7.9	7.95		0.10	7.95	8.14
	С	26	6	26		2	6	26	0.0	26	26
	1	26	3	26		2	6	26	0.0	26	26
Temp.	2	26	6	26		26		26	0.0	26	26
(o C)	3	26	3	2	16	2	26		0.0	26	26
	4	26	3	2	26	2	6	26	0.0	26	26
	5	26	3	2	26	2	6	26	0.0	26	26
	С	7.2	2	6.	.8	5.6		6.5	0.8	5.6	7.2
	1	7.2	2	6.8		5.	6	6.5	0.8	5.6	7.2
Diss.	2	7.2	2	6.	.7	5.	7	6.5	0.8	5.7	7.2
Oxygen (mg/l)	3	7.2	2	6	.6	5.	9	6.6	0.7	5.9	7.2
	4	7.2	2	6	.5	6.	0	6.6	0.6	6.0	7.2
	5	7.2	2	6	.5	5.	7	6.5	8.0	5.7	7.2
	С	20)			2	20		0.0	20	20
	1									0	0
Salinity	2							1		0	0
(g/kg)	3									0	0
	4							1		0	0
	5	20)			20		20	0.0	20	20
Replicate measured		С		Г)	Е	3				
	Initials	GI	3	G	iB	А	G				
		TRC (mg/l) in highes	t conc. at er	nd of test:	N.	/A				
Changes & Notes (Initials, date, specific change or notes)											
			ies	t chamber:	400 mi 1	ri-pour bkr:	✓				
			Test	High All Co	00! '	Other:					
			Test soil	ution vol. (20	·		~				
				in a time of		Other (ml):	- 401 05				
			Illum	ination & photoperiod: 50-100 ft-c 16L							
					<u> </u>	/treatment:	4				
				Initial nun		s/replicate:	10				
			Test Aerated				No -	Date & Tim			
TEST ID		TRT ID:	1	2	3	4	5	D.O. Highe			
WAR	RR1501AMB	CONC (%):	6.25	12.5	25.0	50.0	100	lotal live h	ghest conc	.@ aeration	